



(11) Publication number: **0 449 347 A1**

(12) **EUROPEAN PATENT APPLICATION**

(21) Application number: **91200463.7**

(51) Int. Cl.<sup>5</sup>: **B29C 45/14, A47B 77/08, F24C 15/10**

(22) Date of filing: **05.03.91**

(30) Priority: **28.03.90 ES 9000885**

(43) Date of publication of application:  
**02.10.91 Bulletin 91/40**

(84) Designated Contracting States:  
**DE FR GB**

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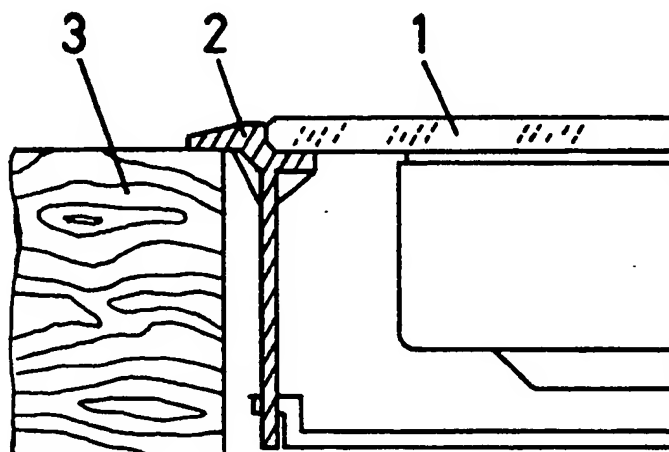
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(54) **Connection system between the ceramic glass and the fastening frame to the top surface.**

(97) Connection system between the ceramic glass and the fastening frame to the top surface, so that the ceramic glass (1) remains solid with a plastic material frame (2), during the manufacturing process

thereof by double injection, said frame (2) remaining manufactured by its direct placement on the top surface (3.)



**FIG.1**

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## DESCRIPTION OF THE INVENTION

The following invention, as is expressed in the title of the present specification, consists of a connection system between the ceramic glass and the fastening frame to the top surface, it being used for the placement of vitroc ceramic plates, so that the ceramic glass and the support frame of the same form a solid unit.

## BACKGROUND OF THE INVENTION

Conventionally, for placement of ceramic glass, a structure formed by several metallic pieces made by die mold is used, or else a structure formed by one single piece, formed by molding, is used.

In the event that the structure is formed by several metallic pieces, they remain connected together by welding, one of them acting as the base and the other as the ornamental plate.

Thus, the ceramic glass remains connected to said structure by means of a sealing material, so that firstly said sealing material is deposited on the one that supports the ceramic glass and then the perimetric filling of the glass is carried out in order to obtain adequate tightness, to avoid the accumulation of dirt, to have a perfect finish, to permit total sealing and so that transport of the same is done in accordance with the existing regulations.

This embodiment has several inconveniences such as the metallic structure requiring a subsequent coating, whose process products an additional cost, which makes the product more expensive and a long period of time for the solidification of the sealing material, which makes the assembly of the product longer. Thus, a significant amount of time must pass so that the sealing material completes its solidification process and subsequently continue its assembly.

## DESCRIPTION OF THE INVENTION

The connection system between the ceramic glass and the fastening structure of the same to the top surface consists of effecting a double injection in which the plastic material frame will remain fastened solidly to the ceramic glass in such a way that they form a single piece which is then assembled on the top surface.

Thus, the sealing material and its application process are entirely eliminated, causing a savings in the materials used, as well as needing less time to assemble the same, upon avoiding the long solidification period of the sealing material.

On the other hand, the plastic material frame remains ready to be put in place without the need of subsequent treatments, as it happens with the metallic structure which requires subsequent coat-

ing.

In order to complement the description that is going to be made hereinafter and for the purpose of providing a better understanding of its characteristics, the present specification is accompanied by a drawing in whose two figure the most significant details of the invention are represented.

## BRIEF DESCRIPTION OF THE DESIGN

Figure 1. It shows a view in which one observes the ceramic glass solid with the plastic material frame and the support of the latter on the top surface.

Figure 2. It shows a view in which one observes the ceramic glass solid with the plastic material frame which clasps it along its entire perimeter, upon its top surface and in support of the latter on the top surface.

## DESCRIPTION OF A PREFERRED EMBODIMENT

In view of the cited figures and in accordance with the numbering used, we can observe how the ceramic glass 1, by means of double injection, remains solid with a plastic material frame 2, made perimetrically to it and through which it will rest on the top plate 3.

Once the frame 2 has been made by injection, it can be placed on the top surface without the need to give it subsequent treatments, upon remaining as a final finished product with adequate tightness and a perfect sealing in order to prevent the passing of liquids towards the inside of the apparatus.

Thus, a considerable savings is produced, due to the materials used as well as by eliminating the solidification time of the sealing material, with which the ceramic glass is conventionally fastened to the metallic support structure of the same.

Likewise, the ceramic glass 1 can remain in such a way that its entire perimeter remains clasped by the frame 4, reaching its top surface instead of said frame remaining lower than the plane of the top surface of the ceramic glass.

## Claims

1. CONNECTION SYSTEM BETWEEN THE CERAMIC GLASS AND THE FASTENING FRAME TO THE TOP SURFACE, in such a way that by means of the same the metallic structure of one or several pieces joined by welding and sealing of the ceramic glass on the same by a sealing material are eliminated, essentially characterized because the ceramic glass (1) remains solid with a plastic material frame (2) during the manufacturing process of

the same by double injection, remaining ready  
for its direct placement upon the top surface  
(3.)

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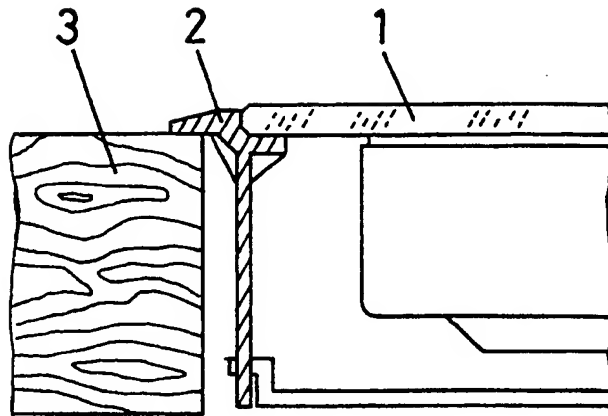


FIG.1

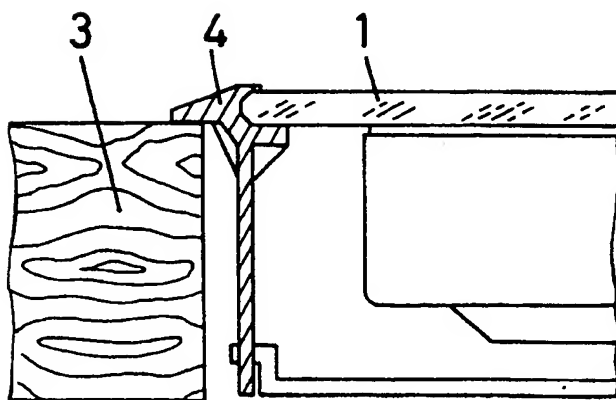


FIG.2



European  
Patent Office

## EUROPEAN SEARCH REPORT

Application Number

EP 91 20 0463

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	DE-A-3 435 365 (LIBBEY-OWENS-FORD CO.) " Page 8, line 4 - page 10, line 10; figure 4 " - - -	1	B 29 C 45/14 A 47 B 77/08 F 24 C 15/10
X	GB-A-2 178 692 (SHELLER GLOBE CORP.) " Whole document " - - -	1	
A	DE-A-3 110 087 (GEBRÜDER THIELMANN AG) " Whole document " - - -	1	
A	DE-U-8 904 819 (BOSCH-SIEMENS HAUSGERÄTE GmbH) " Figure 1 " - - - - -	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 29 C A 47 B F 24 C
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		11 June 91	SCHOELVINCK T.S.
<b>CATEGORY OF CITED DOCUMENTS</b>			
X: particularly relevant if taken alone		E: earlier patent document, but published on, or after the filing date	
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